



1600

RAW SEQUENCE LISTING

DATE: 03/06/2003

PATENT APPLICATION: US/09/502,945

TIME: 16:14:35

Input Set : N:\Cr3\RULE60\09502945.raw

Output Set: N:\CRF4\03062003\I502945.raw

17

1 <110> APPLICANT: Scanlan, Matthew J.
 2 Chen, Yao-Tseng
 3 Stockert, Elisabeth
 4 Old, Lloyd J.
 5 <120> TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULES
 6 ASSOCIATED WITH COLON CANCER AND METHODS FOR DIAGNOSING AND
 7 TREATING COLON CANCER
 8 <130> FILE REFERENCE: LUD-5506-JEL/NDH
 9 <140> CURRENT APPLICATION NUMBER: 09/502,945
 10 <141> CURRENT FILING DATE: 2000-02-11
 11 <150> PRIOR APPLICATION NUMBER: US/08/948,705
 12 <151> PRIOR FILING DATE: 1997-10-10
 13 <160> NUMBER OF SEQ ID NOS: 8
 14 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 1552
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo Sapiens
 20 <400> SEQUENCE: 1

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23	aaagagcaac	taaagcataa	agaatttctt	ctggctgcta	atacttgtaa	ccgtgttggt	180
24	ggtctttggt	tgaatgtgac	tcagcatgaa	gctgttcttt	cccaaaccga	tactaatggt	240
25	catatgcaga	ccatcgaaa	actggttaaa	gaaagagatg	acttgatgtc	tgcactagtt	300
26	tccgtaagga	gcagcttggc	agatacgag	caaagagaa	caagtgtcta	tgaacagggt	360
27	aaacaagttt	tgcaaatatc	tgaggaagcc	aattttgaaa	aaaccaaggc	tttaattccag	420
28	tgtgaccagt	tgaggaagga	gctggagagg	caggcggagc	gacttgaaaa	agaacttgca	480
29	tctcagcaag	agaaaagggc	cattgagaaa	gacatgatga	aaaaggaaat	aacgaaagaa	540
30	agggagtaca	tgggatcaaa	gatgttgatc	ttgtctcaga	atattgcca	actggaggcc	600
31	cagggtgaaa	aggttacaaa	ggaaaagatt	tcagctatta	atcaactgga	ggaaattcaa	660
32	agccagctgg	cttctcggga	aatggatgtc	acaaaagggt	gtggagaaat	gcgctatcag	720
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37	gaaatagctc	aactcagtca	agaaaaaagg	tatacatatg	ataaattggg	aaagttacag	1020
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41	cggctgcgga	cccagttacc	cagcatgccca	caatctgatt	gctgacctgg	atggaacaga	1260
42	gtgaaataaa	tgaattacaa	agagatatatt	acattcatct	ggttttagact	taatattgcca	1320
43	caacgcacca	cgaccttccc	agggtgacac	cgctcagcc	tgacgtgggg	ctggctcctca	1380
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55	gagcgccccc cctgggacgc ctccctccta caaactgcct ttgcctgggc cctacgacag	180
56	tcgagacgac ttccccctcc gcaaaacagc ctctgaaccc aacttgaaaag tgcgttcaag	240
57	gctaaaaacag aaggtggctg agcggagaag cagtcccttc ctgctgcgca aggatgggac	300
58	tggtattagc acctttaaga agagagctgt tgagatcaca ggtgccgggc ctggggcgctc	360
59	gtccgtgtgt aacagcgcac ccggctccgg cccagctct cccaacagct cccacagcac	420
60	catcgctgag aatggcttta ctggctcagt ccccaacatc cccactgaga tgctccctca	480
61	gcaccgagcc ctccctctgg acagctcccc caaccagttc agcctctaca cgtctccttc	540
62	tctgcccac atctccctag ggctgcaggc cacggctact gtcaccaact cacacctcac	600
63	tgctccccc aagctgtcga cacagcagga ggccgagagg caggccctcc agtccctgcg	660
64	gcagggtggc acgtgaccg gcaagttcat gagcacatcc tctattcctg gctgcctgct	720
65	ggcgctggca ctggaggcg acgggagccc ccacggcat gcctccctgc tgcagcatgt	780
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70	gctacagctg ggcaagatcc tcaccaagac aggggagctg cccaggcagc ccaccaccca	1080
71	ccctgaggag acagaggagg agctgacgga gcagcaggag gtcttgctgg gggaggaggc	1140
72	cctgaccatg ccccgaggag gctccacaga gagtgcagac acacaggaag acctggagga	1200
73	ggagaccgag gaagaggatg gggaggagga ggaggattgc atccagggtta aggacgagga	1260
74	gggcgagagt ggtgctgagg agggggccga ctggaggag cctgggtgctg gatacaaaaa	1320
75	actgttctca gatgcccac cgctgcaacc tttgcagggtg taccaagcgc ccctcagcct	1380
76	ggccactgtg cccacccaag ccctggggccg tacccaatcc tcccctgctg cccctggggg	1440
77	catgaagaac cccccagacc aaccctgcaa gcacctcttc accacaagtg tggctctacga	1500
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79	tggccggatc cagagcatct ggtcccggct gcaggagaca ggcctgctta gcaagtgcga	1620
80	gcggatccga ggtcgcaaag ccacgctaga tgagatccag acagtgcact ctgaatacca	1680
81	caccctgctc tatgggacca gtcccctcaa ccggcagaag ctagacagca agaagttgct	1740
82	cggccccatc agccagaaga tgtatgctgt gctgccttgt gggggcatcg ggggtggacag	1800
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84	gctggagctg gccttcaagg tggctgcagg agagctcaag aatggatttg ccatcatccg	1920
85	gccccagga caccacgcc aggaatccac agccatggga ttctgcttct tcaactctgt	1980
86	agccatcacc gcaaaactcc tacagcagaa gttgaacgtg ggcaagggtc tcatcgtgga	2040
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88	ctacatctct ctgcatcgct atgacaacgg gaacttcttt ccaggctctg gggctcctga	2160
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92	acatctgtct cctctgggtg gctactctgt caccgccaga tgttttggcc acttgaccag	2400
93	gcagctgatg accctggcag ggggccgggt ggtgctggcc ctggaggagg gccatgactt	2460
94	gaccgccatc tgtgatgcct ctgaagcttg tgtctcggt ctgctcagtg taaagctgca	2520

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97      gggccggtcc ctgcgagggg cccaagcagg tgagaccgaa gaagccgaaa tgtgaacgcc      2700
98      atggccttgc tgttggtggg ggccgaacag gcccaagctg cggcagcccc ggaacacagc      2760
99      cccaggcccg cagaggagcc catggagcag gagcctgccc tgtgacgccc cggcccccatt      2820
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110 <223> OTHER INFORMATION:
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113 <222> LOCATION: 141..141
114 <223> OTHER INFORMATION:
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Input Set : N:\Crif3\RULE60\09502945.raw

Output Set: N:\CRF4\03062003\I502945.raw

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146 <223> OTHER INFORMATION:

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150      tgatggagag agaaagcatc naaagcttct ggaagcaatc agttcccttg atggaaagaa      180
151      taggcggaaa ttggctgana ggtctgaggc tagtctgaag gtgtcagagt tcaatgtcag      240
152      ttctgaagga tcaggagaaa agctggctct tgcagatctg cttgagcctg ttaaaacttc      300
153      atcttctttg gccactgtga aaaagcaact gactagagtc anatcaaaga anacagtgga      360
154      gttacctctg aacaaaagaag agattgaacg gatccacaga gaatagcatt caataaaacg      420
155      cacaagtcct ctccaaatgg gacctgtcgc tcctgaagaa ccggcaggca gacgagctgg      480
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157      ggaaggcaag aactcccttg gagcaggaaa ttttcaacct cctccataag aacaagcagc      600
158      cagtgcacga ccctttactg acccctgtgg aaaaggcctc tctccgagcc atgagcctag      660
159      aagaggcaaa gatgcgacga gcagagcttc agagggtctg ggctctgcag tctactatg      720
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162      ccgactaga agaacgaaga aaagaggaaa gaaggaggag gagaagaag aagaacaagg      900
163      agaagaagaa agaagaaggg agaaggagaa gaaaagaagg agaaggagaa aaggaagaag      960
164      gagaaagaaa aggagaagga aaaggaaaag aaggagaaga aagaagaact aagaagaagg      1020
165      agaggaagaa taagaaggaa agaagaaaaga aaaaagttaa agaagaagaa agaaggaaga      1080
166      aggaagaag aggaagaact nagaagaaga aagaggagga aagaagaaa aagaataagg      1140
167      aacnagaaag aaggagaaga aagaataaga agaggaagaa gaaaaagaag aaaagaagaa      1200
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173 <212> TYPE: DNA

174 <213> ORGANISM: Homo Sapiens

175 <400> SEQUENCE: 4

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178      ttccggcata aggtggattt tctgattgaa aatgatgcag agaaggacta tctctatgat      180
179      gtgctgcgaa tgtaccacca gaccatggac gtggccgtgc tcgtgggaga cctgaagctg      240
180      gtcacatcatg aaccagccg tctgcctctg tttgatgcca ttcggccgct gatccactg      300
181      aagcaccagg tggaatatga tcagctgacc cccggcgct ccaggaaagt gaaggaggtg      360
182      cgtctggacc gtctgcaccc cgaaggcctc ggccctgagt tgctgtgtgg cctggagtgt      420
183      ggctgtgggc tcttcatctc ccacctcatc aaaggcggtc aggcagacag cgtcgggctc      480
184      caggtagggg acgagatcgt ccggatcaat ggatattcca tctcctcctg taccatgag      540
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186      ctgatccccg tgaaaagctc tcctgatgag cccctcactt ggagtatgt ggatcagttt      660
187      gtgtcggaaat ctggggcgct gcgaggcagc ctgggctccc ctggaaatcg ggaaaacaag      720
188      gagaagaagg tcttcatcag cctggtaggc tcccagggcc ttggctgcag catttccagc      780
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190      gaggtgggat tggagatagg ggaccagatt gtcgaagtca atggcgtcga cttctctaac      900
191      ctggatcaca aggaggtctg aaatgtgctg aaaaatagcc gcagcctgac catctccatt      960
192      gtagctgcag ctggccggga gctgttcatg acagaccggg agcggctggc agaggcgcgg      1020
193      cagcgtgagc tgcagcggca ggagcttctc atgcagaagc ggctggcgat ggagtccaac      1080
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Output Set: N:\CRF4\03062003\I502945.raw

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197	accatcactg	ctgaggtaca	cccagtaccc	cttcgcaagc	caaagtatga	tcagggagtg	1320
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199	gatttcaggga	aatatgagga	aggctttgac	ccctactcta	tgttcacccc	agagcagatc	1440
200	atggggaagg	atgtccggct	cctacgcac	aagaaggagg	gacccctaga	cctggccctg	1500
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209	ggaaagggag	cagccagccg	tttgggagaa	gatctcaagg	atccagactc	tcattccttt	2040
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211	taagacccca	ctggagtctc	tctctctcca	tccctctcct	ctgccctctg	ctctaattgc	2160
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229	gaggtcatca	acctcattcg	aaccaagaaa	actgtgtcca	tcaaagtga	acacatcggc	600
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235	ctggatcaca	aggaggctgt	aaatgtgctg	aaaaatagcc	gcagcctgac	catctccatt	960
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237	cagcgtgagc	tgacgcggca	ggagcttctc	atgcagaagc	ggctggcgat	ggagtccaac	1080
238	aagatcctcc	aggagcagca	ggagatggag	cggcaaggga	gaaaagaaat	tgcccagaag	1140
239	gcagcagag	aaaatgagag	ataccggaag	gagatggaac	agattgtaga	ggaggaagag	1200
240	aagtttaaga	agcaatggga	agaagactgg	ggctcaaagg	aacagctact	cttgcctaaa	1260
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242	tgaggaaggc	tttgacccct	actctatgtt	caccccagag	cagatcatgg	ggaaggatgt	1380
243	ccggctccta	cgcacaaaga	aggagggatc	cttagacctg	gccctggaag	gcggtgtgga	1440
244	ctcccccat	gggaagggtg	tcgtttctgc	tgtgtatgag	cggggagctg	ctgagcggca	1500

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 03/06/2003

PATENT APPLICATION: US/09/502,945

TIME: 16:14:36

Input Set : N:\Crf3\RULE60\09502945.raw

Output Set: N:\CRF4\03062003\I502945.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 55,141,199,342,352,722,750,1058,1101,1144

VERIFICATION SUMMARYPATENT APPLICATION: **US/09/502,945**

DATE: 03/06/2003

TIME: 16:14:36

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L:119 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:123 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:127 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:131 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:135 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:139 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:143 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:147 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:147 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3